THE PATENT GALVANIZED IRON.
TUPPER and CARR,
Owners of Crawford's Patents, and Successors to
THE GALVANIZED IRON COMPANY.
Supply patent Galvanized Sheets, plain or corrugated, for roofing &c., Water or Gas Pipes, Coatings, Wire of all gauges, Galvanized Hoopings, &c. Wholesale, retail, and for export.
An allowance to the trade.
WORKS—WILLWALL and BIRMINGHAM.
LONDON OFFICE, 3, MANSION-HOUSE PLACE.

THE PATENT
GALVANIZING & CORRUGATING IRON COMPANY.
JOHN SYMONDS and Co., Wanstead.
The Company having made some valuable improvements in the mode of working CRAWFORD'S PATENTS, and being able to manufacture larger work than was formerly practicable, they are in a position to execute orders for any extent, in a manner more satisfactorily combined, and substantially united than the formula of [illegible] makers, and others.
ON HAND, sheets, plain or corrugated, for iron houses, roofing, railway stations, &c.—fixed to order, if required. Wire netting, guttering, &c., for house use and exportation.
N.B.—Goods to be galvanized, sent for and returned free of charge, within three miles of the Tower; and all light goods received by Nine o'clock will be returned the same day, if required.
OFFICES—21, CIRCUS, MINORIES.
WORKS—GLASS-HOUSE-YARD, opposite the London Docks.
*** A discount allowed to the trade.

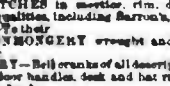
IRON BUILDING and ROOFING WORKS,
BIRMINGHAM, late of Southwark.
JOHN H. PORTER,
Manufacturer of the Corrugated and other kinds of Iron Roofing for railway stations, sheds, farm buildings, [illegible] warehouses, factories, &c. &c.
PATENTEE
Of the Corrugated Iron Bonnet, Gliders, and Fire-proof Floors.

THE CORRUGATED and GALVANIZED IRON ROOF,
PORTABLE BUILDING, AND
NASMYTH'S PATENT FLOORING, ROOFING, AND GIRDER WORKS,
Offices, 63, Gracechurch-street.
JOHN WALKER, one of the Patentees of Corrugated Iron, calls the attention of Architects, Engineers, &c., to his List of Prices, which, consistently with good work manship, are extremely low.
Models of the patent Iron Bonnets, corrugated or not, and Gliders; also, drawings of roofs, on peculiar principles, may be seen by application.
Drawings of the iron lighthouse system of in the Thames, and other papers (see the Engineer for February 8th), may be seen by application.
References to those of the highest class can be given.

NASMYTH'S PATENT
WROUGHT-IRON Fire-proof Flooring,
JOHN WALKER, Sole Manufacturer and Licensee,
Offices, 63, Gracechurch-street.
FIRE-PROOF FLOORS.
The late lamentable accident in Gracechurch-street serves to prove that where cast-iron is the foundation on which flooring, &c., are made, much deeper reliance cannot be placed on it. This induces John Walker to earnestly solicit the attention and investigation of Architects, Engineers, &c. to Mr. G. NASMYTH'S PATENT FLOORING, of which J. W. is the sole licensee and manufacturer. The material is wrought iron, and therefore not subject to sudden fracture as cast-iron is—and wood is not introduced.
Descriptive pamphlets may be had, models may be seen, and every information obtained, at JOHN WALKER'S OFFICES, 63, Gracechurch-street.
MANUFACTURER OF CORRUGATED IRON.

MOREWOOD and ROGERS' Patent Galvanized TINNED IRON, or Iron Tinned previously to being Galvanized.
ANDREW WHYTOCK, 484, New Oxford-street, and 1, Rose-street, Soho, begs to invite the attention of Engineers, Architects, Contractors, and others, who have not hitherto observed it, to this valuable metal, which fully accomplishes the object of the patent. It is suitable to all purposes for which iron is liable to rust is required, but for roofing, the erection of railway platforms, sheds, for the lining of arches and tunnels, for all colonial and agricultural erections, &c. it is pre-eminently adapted, possessing all the advantages of wrought iron, while the iron is [illegible] perfectly preserved from decay, retains its original qualities, and consequently can be employed to the lightest and most economical form. This metal expands and contracts in a very slight degree, its bright surface reflecting the sun's rays, and is therefore admirably adapted for arched and corrugated work.
Testimonials for the use of Admiralty order, from engineers, architects, &c. &c., can be seen, testifying to its [illegible] lightness, economy, and great durability, and that, after [illegible] years upwards of sixteen years, it has not lost the glass [illegible]. Pamphlets containing a description of every use to which the metal can be applied, with plates, price lists, &c. can be obtained as above; and all parties are referred to the Surveyor of the Customs, Sir GEORGE MORGAN, 32, Parliament-street, who will furnish estimates, drawings, &c., with every other explanation, free of cost.

PATENT WROUGHT NAILS.—These NAILS are submitted to the notice of Builders, Contractors, and Public generally, as being superior to any others at present. They have the toughness of the best hand-made nails, with far greater uniformity of make. The flat-pointed rose nail is particularly recommended wherever oak or other hard wood is used, being perfectly clinch pointed, they require no boring, and will drive into the hardest wood without splitting it, and when driven home they do not fly off. The patent wrought nail may be had of all ironmongers. A stock of them is kept at the Office of the Patents, HIGGS and GEORGE, Wholesale Ironmongers, 179, Borough, London.



TO BUILDERS AND OTHERS.
HART and SONS, Wholesale and Manufacturing Ironmongers, Nos. 58, 64, and 65, Wych-street, Established 1818. Proprietors and sole Manufacturers of FIFTH PATENT SELF-ADJUSTING DOOR FURNITURE and SPINDLES, and Manufacturers of Dr. ARNOTT'S VENTILATING CHIMNEY VALVES.
HART and SONS call the attention of Builders, Smiths, Bell-hangers, &c. &c. to their extensive and well selected stock of DOOR FURNITURE in every suitable material, on ends with finger plates, bell-pulls, levers, &c., and also to their
LOCKS and LATCHES in mortice, rim, drawback, [illegible] gate, cabinet &c., of all qualities, including Barron's, Bramah's, Chubb's, and Pitt's Patent.—To their
GENERAL IRONMONGERY wrought and cut nails, screws, hinges, bolts, &c. &c.
BRASS FOUNDERY.—Bell cranks of all descriptions, [illegible] pulleys, pasture rods, shew door handles, desk and hat rails, [illegible] guards, [illegible] plates, &c. &c.
WINDOW FITTINGS of all kinds, including [illegible] rods, arms, sliding sockets, trays, &c. &c.
DOOR SPRINGS and HINGES, including Redman's, Smith's, Collinge's, Gorrish's, and Cotterell's patents.
WINDOW BLIND FITTINGS of the most approved principle.
SHERINGHAM'S and all other VENTILATORS.
CLEAR RACK BOLT MORTICE LOCKS, for which they are AGENTS as well as for all inventions of merit as soon as perfected.
HART and SONS, aware that the practice of publishing NET price lists is injurious to the interests of the trade generally, are unwilling to follow it, but at the same time they beg to assure their friends that their prices will be found equally as low as those of any other respectable house.

TO BUILDERS AND FLORISTS.
IRON PIPES for hot-water circulation, with Bends, Flanges, and every connection, at wholesale prices. RAIN WATER PIPES, ogee and O G gutters, air bricks, sash weights, and rolled hair; ST GEORGE'S STOVES, patent lamp extinguishers, wrought tubular gas pipes, of all sizes, and the whole trade, at [illegible] WHARF, Old Bailey Iron Wharf, Upper Thames-street, London.

CHEST-NUT PIPES, IRON WORK FOR OVENS, &c.
RAIN PIPES, &c.—F. A. TIDDEMAN and Co., St. Ann's Wharf, Earl-street, City, near Blackfriars-bridge, keeps a large stock of Rain Pipes, Heads, Shoes, Elbows, &c., half-round and O. G. Gutters, Socket Pipes for Water or Gas, Flanch Pipes, Sash Weights, and other Castings; Iron Work for Bakers' Ovens of every description, fitted complete, to be had in sets or in parts.—Prices equal to all competitive. Contracts taken to any extent. Goods landed. A powerful crane.

TO BUILDERS, IRONMONGERS, AND OTHERS.
RAIN-WATER PIPES, O G and Half-round Gutters, Sash Weights, Sailing Rope, Air Bricks, &c.
J. JONES, Iron Merchant, Londonbridge Wharf, No. 4, Southwark, has the largest stock in London of the above and other castings, of the very best quality. Also, on sale iron pipes for gas, water, or drainage; bends, tees, &c.; flange and hot-water pipes, with all the usual connections; lamp-posts and retorts, stable fittings, pig-troughs, &c. &c.
Prices will be forwarded on application, which will be cheaper than any other house in London.
J. JONES, IRON MERCHANT, IRON-BRIDGE WHARF, No. 4, SOUTHWARK, LONDON, near the Cannon-street Iron Bridge.

TO BUILDERS, CARPENTERS, CABINET MAKERS, &c.
JOHN DALE, 18, CHISWELL-STREET,
begs to inform the above Trades that he has purchased the business and premises of the late Mr. P. R. WILLIAMSON, Ironmonger and Stove Manufacturer, 35, Chiswell-street, Finsbury-square, where J. D. continues to carry on the said business which, with his own, will form one of the most varied and extensive stocks of ironmongery in London; every article being of the best description and lowest possible prices:—
Elliptic Stoves, double backs, 24d. per inch.
Register stoves, 3d. 4d. 6d. 7½d. per inch.
Self-acting Ranges, with circular ovens and back boilers, best wrought bars and bright fittings:—
2 ft., M. 10s. 3 ft. 6 in., M. 4s. 4 ft., M. 15s.
3-feet Cottage Ranges, with ovens and back boilers, 30s. each.
3-feet self-acting ditto, ditto ..... 45s. each.
Air Bricks, 3s. 6d. per cent.—14-inch Cut Lath Nails, 12s. 6d. per cwt.
Best Patent Cut Clasp,
1½ 1¾ 2 2½ 3 inch and larger.
14s. 6d. 14s. 13s. 12s. 6d. 11s. per cwt.
Best Sheet Floor Brads, 11s. 6d. per cwt.
Best Town Glue, 30s. Pitts, Sussex, 22s. per cwt.
Best Patent Sash Line.
1 2 3 4 5 6
4s. 6d. 3s. 6d. 2s. 6d. 2s. 1s. 6d. 1s. per gross.
List of Prices had on application at the Warehouse, or by letter [illegible].

CLARK and HUNT'S IRONMONGERY,
STOVE and METAL WAREHOUSE, 180, Shoreditch.
Improved Cottage Ranges, with [illegible] 30 32 34 36 inch
Large Oven and Boiler ..... 30s. 34s. 38s. 44s.
Best Self-acting Ranges, with Oven and [illegible] 34 36 38 42 inch.
Back Boiler, Bright Wrought Bars ... 34s. 36s. 38s. 42s.
Serving Elliptic Stoves, with Extra Bosh and Solid Bars, per inch, 8d.
Register Stoves, with Solid Bars, per inch, 5d. Best Solar, with Fire Brick Bosh, per inch, 10d.
Bright Stoves, with Two Fires, 30s. to 40s. each.
Cast Rain-water Pipe { 2 3 3 inch. 6d. 10d. 1s. per yard.
Cast Gutters—4 inch, 8d. per yard.
O. G. Gutters ..... { 6 4½ inch. 1s. 1od. 1s. per yard.
Best Cut Clasp { 1½ 1¾ 2 2½ 3 inch. and Rose { 14s. 6d. 14s. 13s. 6d. 13s. 12s. per cwt.
Block Floorings Brads, 11s. 6d. per cwt.
1 inch Cut Lath, 14s. Cast Lath, 2s. 6d.
6-inch 3-Bolt Rd. Wood Mortice, with best Furniture and Patent Spindles, 3s. 9d. Light Elliptic and Register Metal, 12s. per cwt.
Hot Water Pipes, 8s. 6d. per cwt.
Dr. Arnott's Ventilators, 5s. each.
An extensive stock of bar, rod, hoop, and sheet iron.
Clark and Hunt's Improved Glass Paper.

TO BUILDERS, CABINET-MAKERS, and OTHERS.
Best Cut Sheet Flooring Brads, 11s. 6d. per cwt.
Fine Cut Clasp and Rose.
14s. 6d. 14s. 6d. 13s. 6d. 13s. 12s. 9d. per cwt.
1½ 1¾ 2 2½ 3 inch.
Cross Garnet Hinges, per dozen pair.
2s. 9d. 3s. 3d. 4s. 4s. 6d. 5s. 7s. 9d.
10 12 14 16 18 20 in.
Best Bright Tower Bolts, per doz.
1s. 3d. 1s. 7d. 2s. 2s. 6d. 3s. 3d. 3s. 7d. 5s.
3 4 5 6 7 9 in.
Iron Rain-water Pipe.
3d. 10d. 1s. 1d. 1s. 3d. 1s. 6d. per yard.
2 2½ 3 4 inch.
Best London Glue, 40s. per cwt.
Cast Lath Nails, 1s. per cwt.
Air Bricks, 3s. 3d. per doz.
Hooping for bond, 6l. 10s. per ton
Sash Weights, 3s. per cwt.
TERMS—NET CASH.
A price list may be had on application.
A. L. PFEIL and Co.,
Wholesale Ironmongers, Brass Founders, and Nail Warehouse,
5 and 6, Broad-street, Bloomsbury, London.
AGENTS FOR LEA'S PATENT MORTISE LOCKS AND BOLTS.

TO BUILDERS, CARPENTERS, AND OTHERS.
BENJAMIN WALMSLEY, IRONMONGER, BRASSFOUNDER, STOVE, and RANGE MANUFACTURER, 126 and 127, LONDON-ROAD, Southwark, for the supply of builders, carpenters, cabinet-makers, upholders, blind-makers, smiths, wheelwrights, &c., at wholesale prices:—
Best Cut Sheet Flooring Brads, 11s. 6d. per cwt.
Best Cut Clasp { 1½ 1¾ 2 2½ 3 in. and Rose ... } 14s. 6d. 14s. 13s. 6d. 13s. 6d. 12s. 6d. per cwt.
Cast Lath, 2s. 6d. per cwt.; Sash Weights, 3s. per cwt.
Sash Pulleys, 6s. per gross.
Cast Butts, per dozen pair:—2-in., 1od.; 2½-in., 1s. 3d.; 3-in., 1s. 9d.
Iron Rain-water { 2 3 3 in. pipe ..... } 9d. 10d. 1s. 1d. per yard.
Half Round { 3 4 in. Gutter ..... } 1s. 7d. 2s. 6d. "
O G Gutter ..... { 4 5 in. 1s. 6d. "
Air Bricks, 3s. 6d. per dozen. Hooping for Bond, 6l. 6d. per cwt.
Dr. Arnott's Ventilators, 4s. 6d. each.
5-ft. Self-Acting Cottage Ranges, with Oven and Boiler, 32s. each.
5-ft. ditto with Wrought Bars and Bright Fittings, 35s. each.
Register Stoves, with Double Backs, 5d. per inch.
Elliptic Stoves, with Double Backs, 3½d. per inch.
Bright Register Stoves, with Two Sets of Bars, from 3l. each.
An excellent variety of Black and Bright Register Stoves kept ready for use at all prices, to which the attention of architects and builders is respectfully invited.
A large assortment of Rim, Mortice, Drawback, Iron Gate, and other kinds of Locks and Latches. An extensive Stock of neat and elegant Door Furniture, in Brass, Porcelain, Glass, and Fancy Woods.
Finger Plates, Levers, and Bell-pulls on cards.
Bar, Hoop, Sheet and Rod Iron, and Spring Steel.
The stock of this establishment is too extensive to be described in the limits of an advertisement; and the most correct idea that can be given of it is by inviting that every trade consuming ironmongery can here select whatever they require at wholesale prices.
WALMSLEY'S, 126 and 127, LONDON-ROAD, SOUTHWARK, six doors from the Obelisk.

NOIRSAIN'S VENTILATING GRATES and STOVES.—A long sought-for desideratum at last obtained. Ventilation in Fuel.—Entire Prevention of Smoking in Chimneys.—and Perfect Regulation of the Temperature of Rooms effected by the new Ventilating Grates, which may be seen in operation at
NOIRSAIN'S Establishment, 3, CHARLOTTE-STREET, BLOOMSBURY-SQUARE, where he solicits the attention of the public and scientific men to his new apparatus,—the utility and superior advantages of which will be satisfactorily demonstrated at his Depôt, 191, REGENT-STREET, to any visitor. The highest testimonials from [illegible] Two Guineas upwards.

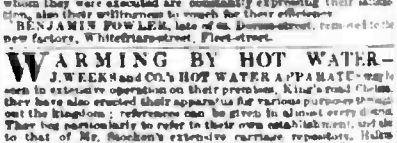
BENHAM and SONS' IMPROVED KITCHEN FITTINGS, as supplied by them to several of the principal Clubhouses, Railway Hotels, Public Establishments, and Private Families, combining great efficiency and the utmost economy of fuel with perfect simplicity of management and the most substantial workmanship. Specimens of the new Kitchen Ranges, Broiling Stoves, Dishing-up Tables, Hot-air or Trivet closets, Steam Kettles, &c., may be seen at the EXHIBITION, CLASS 28, No. 8, AVENUE F, ON SOUTH SIDE OF NAVE, and a large collection, including Kitchen Ranges at every variation of price, from 9s. to 25l., at their MANUFACTORY and SHOW ROOMS, 19, WIGMORE-STREET, CAVENDISH-SQUARE, LONDON.

COOKING RANGES.—NICHOLSON'S PRIZE COTTAGE COOKING, and other GRATES, which obtained the premiums offered by the Royal Agricultural Society at the York and Exeter meetings may be seen in Prince Albert's Model Rooms in Hyde-park, in the Model Structure of the Society for Improving the Conditions of the Labouring Classes in the Great Exhibition Building, and at his old model there (No. 15, Class 13), where also are exhibited his recent improvements in large Cooking Grates, including the newly invented Cosmopolitan Cooking stove, or complete suit of Kitchen Apparatus in one piece, and his Anglo-German Cooking Stove for Cottagers. Emigrants &c., to which a silver medal was awarded at the Exeter show. They may be procured at PIERCE'S, Jermyn-street, London, and of most respectable Country Ironmongers. Price lists and full particulars will be sent on application to the Manufacturer (inclosing five postage stamps), Newark-on-Trent. N.B. Intending purchasers of kitchen grates are earnestly requested in default of receiving satisfactory information, to apply to the manufacturer direct.

STOVES, RANGES, GAS FITTINGS, &c.
BENETFINK and COMPANY defy competition in the above articles, if durability, combined with elegance of design, is deemed to be the test of cheapness.
B and Co. especially call the attention of Architects and Builders to their house, as they are admitted to have the largest and best selected stock of STOVES, RANGES, and GAS FITTINGS in the kingdom. Their stock contains Shepherdson's Patent Register Stoves, patent hemispherical ditto, patent solar ditto, and every permissible duty the unrivalled Derby Kitchen Range, and every description of cooking apparatus. As a proof of their ability to furnish the mansion or the cottage they submit the following scale of prices:—
Fine cast black Register Stoves, 2 feet wide, from 13s. to 15l.
Highly finished Drawing-room Stoves, from 6l. to 20 guineas.
Cottage Ranges, with boiler and self-acting oven, from 30s.
Improved Kitchen Ranges, with boiler, self-acting oven, and bright fittings, from 36s.
Very strong Kitchen Ranges, with self-acting oven, best wrought iron, steam boiler, bright fittings, and bright spit racks, from 10 to 19 guineas.
3 light, water-slide, gas Chandeliers, from 30s.
3 light ditto ditto, from 2 to 19 guineas
NOTE THE ADDRESS—BENETFINK and COMPANY, 89 and 90, CHEAPSIDE, LONDON.
Wholesale entrance, 1, IRONMONGER-LANE.

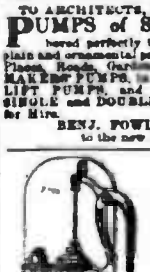
HOT-WATER APPARATUS.—The attention of architects, builders, and others is respectfully requested to BENJAMIN POWLER'S improved method of heating churches and chapels, halls, staircases, conservatories, forcing and green houses, manufactories and warehouses, kilns, rooms for drying timber, &c., and every variety of purpose for which artificial heat is required. Within the last twenty years some hundreds of buildings have been heated upon this plan, and all for whom they were executed are constantly expressing their satisfaction, also their willingness to vouch for their efficiency.
BENJAMIN POWLER, late of 69, Dorset-street, removed to the new Factory, Whitefriars-street, Fleet-street.

WARMING BY HOT WATER—J. WEEKS and CO.'S HOT WATER APPARATUS may be seen in extensive operation on their premises, King's-road, Chelsea, where they have also erected their apparatus for various purposes throughout the kingdom; references can be given in almost every district. They beg particularly to refer to their own establishment, and also to that of Mr. Stocken's extensive carriage repository, Hallam-street, Hyde-park-corner, where the apparatus may be seen in operation. Ornamental Pedestals and stands of Pipes in great variety, applicable for warming churches, mansions, entrance halls, offices, conservatories, &c.—TUBULAR BOILERS of all sizes, warranted to be the most efficient and economical of any yet introduced.—J. WEEKS and Co., Hot Water Apparatus Manufacturers, King's-road, Chelsea.



BATHS.—J. TYLOR and SONS REGISTERED APPARATUS, consisting of Cover of Galvanized Iron Bath (japanned in imitation of white marble) fixed in Frame complete, with Copper Circulating Boiler and Cock with Jacket-plate for the supply of hot water. This apparatus is complete in itself, and can be fixed without the assistance of bricklayer or carpenter. A warm bath can be prepared for use in less than half an hour, at the cost of 3d. for fuel. Price 14 guineas.—Apply to the Ironmongers and Plumbers of the manufacturers, J. TYLOR and SON, Warwick-lane, London.

TO ARCHITECTS, BUILDERS, AND BRICK-MAKERS.
PUMPS of Superior CONSTRUCTION, bored perfectly true by improved machinery, in various plain and ornamental patterns for Conservatories, Squares, Shade Places, Roads, Gardens, and for Liquid Manure. BRICK-MAKERS' PUMPS, in Wrought and Cast Iron. HYDRAULIC LIFT PUMPS, and ENGINES for Wells of any depth. SINGLE and DOUBLE PUMPS up to twelve-inch bore. Lead for Mine.
BENJ. FOWLER (late of 69, Dorset-street), removed to the new Factory, Whitefriars-street, Fleet-street.



TO BUILDERS AND PLUMBERS.
THE attention of the Trade is called to
JOHN WARNER & SONS' PATENT VIBRATING STANDARD PUMP,
which is recommended for the remarkable simplicity of its construction, and the ease with which it works.
By the introduction of the vibrating standard the cumbrous cast-iron levers, slings and guides are entirely dispensed with, rendering the price considerably less than pumps made on the usual plan.
Beer and Water Engines for Cellars, Sinks from a depth not exceeding 30 feet; Garden Engines and Force-pumps on the same principle.
JOHN WARNER & SONS,
8, Crescent, Jewin-street, London,
Manufacturers and Patentees.

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